

# LearnHub – Solution Requirements

**Project Name:** LearnHub

**Team ID:** LTVIP2025TMID55173

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## 1. Introduction

This document outlines the functional and non-functional requirements of the LearnHub platform. It serves as a blueprint for the development team to ensure proper feature implementation and performance standards.

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## 2. Functional Requirements

The LearnHub platform must provide the following functions:

1. **FR1:** User Registration and Login system for Students, Educators, and Admins.
2. **FR2:** Course browsing and search by title, category, or language.
3. **FR3:** Enroll in available courses and access course content.
4. **FR4:** Course creation, editing, and publishing by educators.
5. **FR5:** Upload and manage multimedia content (PDFs, videos, quizzes).
6. **FR6:** Progress tracking and automatic course completion status updates.
7. **FR7:** Generate and download course completion certificates.

8. **FR8:** Admin dashboard to manage educators, reported content, and platform analytics.
  9. **FR9:** Notification system for reminders and course updates.
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### 3. Non-Functional Requirements

The system must also satisfy the following quality constraints:

1. **NFR1:** The platform should be responsive and mobile-friendly.
  2. **NFR2:** The system should support at least 100 concurrent users with <2s response time.
  3. **NFR3:** Data should be securely stored using encryption and user authentication (JWT).
  4. **NFR4:** System availability should be 99.9% uptime excluding maintenance windows.
  5. **NFR5:** The platform must support multiple languages (English, Hindi, etc.).
  6. **NFR6:** All actions should be logged for debugging and audit purposes.
  7. **NFR7:** The UI should be accessible (WCAG 2.1 compliant).
  8. **NFR8:** Backups should be taken daily with 7-day retention.
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